



Repeater: NØDX 145.190 MHz (Input 144.590 / Tone 192.8 Hz)


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[Meetings](#)
[Members](#)
[Officers](#)
[Newsletter](#)
[E. Iowa DX Bulletin](#)
[Buy-Sell-Trade](#)
[DXCC Card Checking](#)
[About EIDX](#)
[History](#)
[Constitution & Bylaws](#)
[DX Resources](#)

## The Eastern Iowa DX Bulletin

Number 225, June 7, 2024

**Craig Fastenow, KØCF, Editor**

This bulletin is a compilation of **currently active** DX operations (or those that will become active within the current week) from recent issues of the three DX bulletins listed below and other sources. Credit for the source is given at the end of each article.

Articles are ordered by the entity's callsign prefix from the *ARRL DXCC Entities List*. Callsigns used are in **bold** with dates of operation highlighted in **red**. Clickable links are provided for QSL and other information wherever possible. Note that articles may be edited for grammar, language, style and accuracy and will remain in *The Bulletin* while active; articles that are announcements of ongoing operations, or that have no specified end date, will be removed after three weeks.

Also included is a [Propagation](#) section, updated daily; and a [Contest Calendar](#) of upcoming popular contests.

DX News items are courtesy of:

The ARRL DX Bulletin

The bulletin is available at <http://www.arrl.org>

425 DX News, A.R.I. DX Bulletin (425DXN)

Edited by Mauro Pregliasco, I1JQJ & Valeria Pregliasco, IK1ADH

425 DX News Home Page: <https://www.425dxn.org/>

425 DX News Google Group: <https://groups.google.com/g/425eng>

DX Newsletter (DXNL)

Edited by Andreas Salder, DK5ON

A weekly service of DARC Committee "DX", <http://www.darcdxhf.de>

Propagation data is from:

National Oceanic and Atmospheric Administration's

[Space Weather Prediction Center](#)

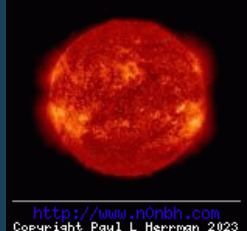
Dr. Tony Phillips' [SpaceWeather.com](http://SpaceWeather.com), used by permission

Contest data courtesy of the [WA7BNM Contest Calendar](#)



### Solar-Terrestrial Data

08 Jun 2024 1717 GMT  
 SFI: 184 SN: 155  
 A-Index: 28  
 K-Index: 2  
 X-Ray: C2.5  
 304A: 195.9 @ SEM  
 Ptn Flx: 421  
 Elc Flx: 418000  
 Aurora: 3/n=1.99  
 Mag (Bz): -0.2  
 Solar Wind: 483.8  
 Geomag Field QUIET  
 Sig Noise Lvl S1-S2  
 Current Solar Image



<http://www.nonbh.com>  
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## DX News

**5U, NIGER.** Elvira, IV3FSG will be active **5U5K** from Niger on **June 6th-20th**. She will operate SSB, FT8/FT4 (using MSHV in multi-stream mode), RTTY and maybe some CW on 160-6 meters.

Francesco, IKØXBX will be her pilot station. QSL direct to [IK2DUW](#).

-[425DXN # 1725 May 25, 2024] (0531-0621)

**9N, NEPAL.** Watch for Nabin, **9N2NK**, operating from Kathmandu on 20, 15, and 10m (FT8). See his real-time log at: <https://www.nabinpoudel.com.np/ham-radio/qso-logs>. QSL direct via [9N2NK](#).

-[DXNL # 2408 May 29, 2024] (0531-0621)

**C9, MOZAMBIQUE.** Pedro, CT7AHV will be active again as **C91AHV** from Chinonaquila, Mozambique from **June 3rd to 15th**. He will operate FT8, SSB and CW on 40, 20, 15, 10 and 6 meters. Initial plans are to concentrate on the HF bands on June 4th-7th (FT8) and June 9th-12th (SSB and CW), and on 6

meters on June 13th-15th (CW, SSB and FT8). On June 8th he will do a POTA activation from the Lubombo Conservation Area. Check <https://www.qrz.com/db/C91AHV> for updates. QSL via [EA5GL](#), LoTW, [ClubLog's OQRS](#).

-[425DXN # 1723 May 11, 2024] (0531-0614)

**D4, CAPE VERDE.** Harald, DF2WO as **D44TWO** and Adolf, DG9KAN as **D44KAN** will be active from Sao Tiago (AF-005), Cape Verde on **June 6th-22nd**. Look for D44TWO to be QRV "all modes, all bands" (6 meters included) and via QO-100, while D44KAN will operate mainly SSB on 80-10 meters. QSL D44TWO via [MØOXO's OQRS](#); QSL D44KAN via eQSL, or direct to [DG9KAN](#).

-[425DXN # 1726 June 1, 2024] (0531-0621)

**DL, GERMANY.** Special callsign **DM6ØIOTA** will be used by DARC Team SES to celebrate the 60th anniversary of the Islands On The Air program. Plans are to be active from all of the German IOTA groups (EU-042, EU-047, EU-057, EU-127, EU-128 and EU-129), but **dates of operation are still unknown**. QSL via the bureau, or direct to [DL2VFR](#).

-[425DXN # 1727 June 8, 2024] (0607-0628)

**DL, GERMANY.** The following special event callsigns will be active from **June 14th to July 17th** around the European Football Championship: **DL2Ø24E**, **DL2Ø24U**, **DL2Ø24R**, and **DL2Ø24O**. Awards are available: <https://www.darc.de/der-club/referate/dx/sonderdiplome/>. QSL via DARC QSL bureau, [DL2VFR](#).

-[DXNL # 2409 June 5, 2024] (0607-0719)

**DL, GERMANY.** The Berlin Airlift was an operation that carried supplies by plane to the Allied sectors of West Berlin over a Russian blockade. For more than a year, hundreds of American, British and French cargo planes ferried provisions to West Berlin's Tempelhof, Gatow and Tegel airfields. Commemorating the 75th anniversary of the end of the Berlin Airlift, three special event stations will be active from **May 12th until June 24th**: **DLØGWW** for Gatow, **DLØTXL** for Tegel, and **DLØTHF** for Tempelhof. An award will be available: <https://ham-awards.de/index.php/75luft/>. An operating schedule is available here: <https://www.darc.de/der-club/distrikte/ortsverbaende/33/75luft/>. Paper QSL cards will not be provided; QSL via LoTW, QRZ Logbook, and the DARC Community Logbook.

-[425DXN # 1724 May 18, 2024] (0517-0628)

**DXCC TOP TWENTY.** Here are the top 20 entities on ClubLog's "DXCC Most Wanted" list as of June 7, 2024:

|          |                    |          |                                  |
|----------|--------------------|----------|----------------------------------|
| 1. P5    | DPRK (North Korea) | 11. 3Y/B | Bouvet Island                    |
| 2. BS7H  | Scarborough Reef   | 12. ZS8  | Prince Edward & Marion Islands   |
| 3. CEØX  | San Felix Islands  | 13. KH4  | Midway Island                    |
| 4. BV9P  | Pratas Island      | 14. VKØM | Macquarie Island                 |
| 5. KH7K  | Kure Island        | 15. PYØS | Saint Peter And Paul Rocks       |
| 6. KH3   | Johnston Island    | 16. KP5  | Desecheo Island                  |
| 7. FT/G  | Glorioso Island    | 17. VPØS | South Sandwich Islands           |
| 8. 3Y/P  | Peter 1 Island     | 18. KH5  | Palmyra & Jarvis Islands         |
| 9. FT5/X | Kerguelen Island   | 19. ZL9  | New Zealand Subantarctic Islands |
| 10. YVØ  | Aves Island        | 20. FK/C | Chesterfield Islands             |

For the complete list, see <https://clublog.org/mostwanted.php>

-[KØCF June 7, 2024] (0607-0628)

**F, FRANCE.** For the 72nd year the Association des Radioamateurs de la Sarthe (F6KFI) will operate special event station **TM24H** for the 24 Hours of Le Mans on **June 2nd-16th**, with activity on various bands and modes. QSL via [F6KFI](#).

-[425DXN # 1725 May 25, 2024] (0531-0621)

**F, FRANCE.** Team **TM8ØDD** will be active on **June 1st-16th** to commemorate the 80th anniversary of the D-Day landings in Normandy (June 6, 1944). They will operate SSB, CW and digital modes on all bands. QSL via [F5JYD](#).

-[425DXN # 1723 May 11, 2024] (0531-0621)

**F, FRANCE.** Special event station **TM85JO** operates around the Olympic Torch stages from **May 8th to 12th**, **June 8th to 9th**, **June 21st to 23rd**, **July 12th to 14th**, and on **July 26th**. QSL via bureau.

-[DXNL # 2405 May 8, 2024] (0510-0726)

**FO, FRENCH POLYNESIA.** Dave, WJ2O, will be active as **FO/WJ2O** on Tahiti from **June 12th to 15th**. QRV on 40-10m, mostly on CW, with 100W. QSL via [N2ZN](#) or LoTW.  
-[DXNL # 2408 May 29, 2024] (0607-0614)

**FS, SAINT MARTIN.** John, K9EL, operates holiday-style **until June 19th** as **FS/K9EL** from Saint Martin (NA-105). QRV on HF with a focus on 6m. QSL via [ClubLog's OQRS](#) (preferred), LoTW, or via [K9EL](#).  
-[DXNL # 2409 June 5, 2024] (0607-0621)

**FT/G, GLORIOSO IS.** Marek, FH4VVK will be active as **FT4GL** from Grande Glorieuse, Gloriosos Islands (AF-011) from **May 24th to June 19th**. The most recent activity from the islands dates back to 2009 (FT5GA), and the Glorieuses are currently ranked 8th on ClubLog's DXCC Most Wanted List. This one-man operation will be carried out in parallel with Marek's professional activities. He hopes to be QRV daily with two stations at the same time - one on FT8 and one on SSB or RTTY (he lacks sufficient knowledge of CW to manage a huge pile-up). There will be no activity on 6 meters, EME, or via satellite. QSOs will be uploaded to ClubLog on a daily basis; access to the Internet will be available for two hours a day, from 1800 to 2000 local time. Bookmark <https://ft4gl.blogspot.com/> and <https://www.facebook.com/61557262192352> for more information and updates. full LoTW upload will follow six months after the end of the DXpedition. QSL via [F4FTV](#).  
-[425DXN # 1716 March 23, 2024] (0524-0621)

**FY, FRENCH GUIANA.** Operators at club station FY5KE are QRV as **TO6ØCSG** each weekend in April, May, and June to celebrate the 60th anniversary of the Guiana Space Centre. See detailed information at [TO6ØCSG](#). QSL direct to [FY5KE](#).  
-[ARRL DX Bulletin # 14 April 4, 2024] (0405-0628)

**G, ENGLAND.** The callsign **GB4DDL** (D-Day Landings) commemorates the Allied landing operation on the air on **June 7th and 8th** from the Mexborough & District Amateur Radio Society (MADARS - G4BTS), located near Doncaster. QRV on all HF bands. QSL via [MØOXO's OQRS](#), LoTW.  
-[DXNL # 2409 June 5, 2024] (0607-0614)

**G, ENGLAND.** Commemorating the 80th anniversary of the D-Day landings, the RSGB's National Radio Centre at Bletchley Park will host the special event station **GB2DAY** on **June 6th-9th**. Look for activity on 80 and 40 meters SSB and CW. QSL via eQSL.  
-[425DXN # 1726 June 1, 2024] (0531-0614)

**G, ENGLAND.** Commemorating the 80th anniversary of the D-Day landings in Normandy (June 6, 1944), members of the Newbury and District Amateur Radio Society will be active as **GB8ØDDAY** from **June 1st to 28th**, with a special focus of activity on June 6th. QSL via eQSL, or via [MØOXO's OQRS](#).  
-[425DXN # 1725 May 25, 2024] (0531-0628)

**G, ENGLAND.** Joining Guglielmo Marconi's 150th anniversary celebrations, the Cornish Radio Amateur Club (GX4CRC) will be active as **GB15ØGM** from **April 27th until July 27th**. This activity participates in the "Marconi 150 Award", organized by the Associazione Radioamatori Italiani (ARI) and the Coordinamento Stazioni Marconiane Italiane (CSMI) under the patronage of the Guglielmo Marconi Foundation. See IR2GMCL below. QSL via eQSL.  
-[425DXN # 1720 April 20, 2024] (0426-0726)

**GI, NORTHERN IRELAND.** Commemorating the 80th anniversary of the D-Day landings (June 6, 1944), the Rushyhill Radio Society (MNØUGP) will be active as **GB8DDY** from **June 1st to 28th**. A certificate will be available, but QSL cards will not be provided - see <https://www.qrz.com/db/GB8DDY> for information.  
-[425DXN # 1724 May 18, 2024] (0531-0628)

**GM, SCOTLAND.** Look for **GB9DAT** to be active on **June 1st-28th** on a variety of digital modes (including FT8, FT4, PSK, and RTTY, among others). This is a "special event station dedicated to advancing and promoting digital modes in amateur radio". QSL via [ClubLog's OQRS](#), or direct to [MMØDFV](#).  
-[425DXN # 1725 May 25, 2024] (0531-0628)

**HK, COLOMBIA.** A five-man team (HK4C, HK4LPA, HK4SSI, HK4T and HK4X) will be active from Isla Gorgona (SA-017) on **June 7th-11th**. They will be QRV as **HK4X/HKØ**. The latest operation from this IOTA group dates back to 2009 (5K5T). Plans are to operate SSB, FT8 and FT4 on 80-6 meters, and also via satellite. QSOs will be uploaded to ClubLog, eQSL, QRZ Logbook and LoTW.

-[425DXN # 1726 June 1, 2024] (0607-0614)

**HP, PANAMA.** A team of operators (HP1DBK, HP1EJC, HP1JGG, HP1MRA, HP1PAR, HP1REF, HP8FOC) will be active as **H33IP** from Parida Island (NA-071) from **June 7th to 9th**. QRV on 160-10m using SSB and (mostly) FT8. For more information see <https://tinyurl.com/298t8xke>. QSL via [EA5GL](#).

-[DXNL # 2409 June 5, 2024] (0607-0614)

**HR, HONDURAS.** Mike, AB5EB, is going to put Roatan Island (NA-057) on the air as **HQ9EB** from **June 5th to 11th**. QRV mostly on 6m with an 8 element Yagi and 1.5kW amplifier. QSL via [AB5EB](#).

-[DXNL # 2409 June 5, 2024] (0607-0614)

**HS, THAILAND.** Brad, VK2BY, operates as **HSØZNR** from **May 24th to June 13th**. QSL via [VK2BY](#).

-[DXNL # 2407 May 22, 2024] (0524-0614)

**I, ITALY.** Launched in 1904, the 'Elettra' was a two-masted steam yacht that Guglielmo Marconi used as a floating laboratory for many experiments. Part of her keel stands in the grounds of Villa Griffone, the Marconi Museum, at Pontecchio near Bologna, from where ARI Fidenza will be active as **IY4RFE** on **June 8th-9th**. For more information see: <https://www.arifidenza.it/>. QSL via [IQ4FE](#).

-[425DXN # 1727 June 8, 2024] (0607-0614)

**I, ITALY.** Domenico, IK1MNF will be active again as **IK1MNF/IA5** from Isola d'Elba (EU-028) from **early June through the end of September**. He will operate SSB on 20-6 meters. QSO will be uploaded to ClubLog and LoTW; QSL via [IK1MNF](#).

-[425DXN # 1726 June 1, 2024] (0531-0621)

**I, ITALY.** Celebrating Pesaro Capitale Italiana della Cultura (Italian Capital of Culture) 2024, members of ARI Pesaro and ARI Fano will be active as **Iİ6CIC** from **June 1st to August 29th**. QSL via [IQ6PS](#).

-[425DXN # 1725 May 25, 2024] (0531-0830)

**I, ITALY.** Members of ARI Colli Albani (IQØHV) will be active as **IİØLOR** from **May 31st to June 30th** to mark the 80th anniversary of the Liberation of Rome (June 4, 1944). A certificate will be available, see <https://www.qrz.com/db/IİØLOR> for information. QSL via [IØKNQ](#).

-[425DXN # 1725 May 25, 2024] (0531-0705)

**I, ITALY.** Commemorating the 150th anniversary of the birth of Guglielmo Marconi, members of ARI's Board of Directors will be active as **IR2GMCL** from **April 28th to July 27th** during the "Marconi 150 Award". See <https://www.qrz.com/db/IR2GMCL> for the rules. Paper QSL cards will not be provided; electronic QSLs may be downloaded from the HamAward platform.

-[425DXN # 1720 April 20, 2024] (0426-0726)

**I, ITALY.** Members of ARI Venezia (IQ3VE) will be active as **IR3POLO** from **April 1st to June 30th**. The special callsign commemorates the 700th anniversary since the death of Marco Polo, the Venetian merchant and explorer who travelled through Asia along the Silk Road (1271-1295). All QSOs will be confirmed automatically via the bureau.

-[425DXN # 1716 March 23, 2024] (0329-0628)

**JA, JAPAN.** Kenji, JA4GXS will be active as **JA4GXS/1** from Izu Oshima (AS-008) on **June 1st-3rd**. He will operate CW, SSB and FT8/FT4 on 40, 30, 20 and 6 meters. QSL via [JA4GXS](#).

-[425DXN # 1723 May 11, 2024] (0510-0531)

**JA, JAPAN.** Take, JI3DST will be active again from the Miyako Islands (AS-079) from **April 24th to June 26th**. Callsigns to be used are **JS6RRR**, **JS6RRR/6**, **JI3DST/6**, **JJ5RBH/6** and **JR8YLY/6** on SSB and CW, as well as **JS6RRR/p**, **JI3DST/p**, **JJ5RBH/p** and **JR8YLY/p** on FT8/FT4. QSOs will be made available for ClubLog and LoTW Matching on the IOTA website.

-[425DXN # 1720 April 20, 2024] (0419-0628)



**K, UNITED STATES.** Andy, AA5JF plans to combine a business trip with some IOTA activations. His tentative schedule is as follows:

NA-139 Assateague Island, **June 7th (1900 UTC) to June 8th (1800 UTC)**  
 NA-140 Middle Hooper Island, **June 8th (1900 UTC) to June 10th (0100 UTC)**  
 NA-136 Outer Thimble Island, **June 15th (1400-2000 UTC)**  
 NA-148 Georges Island, **June 16th (1500-1830 UTC)**  
 NA-046 Martha's Vineyard, **June 19th (1400-2100 UTC)**

He will be signing **AA5JF** (neither /m nor /p) from all the islands, and will operate mainly CW, with some SSB and FT8 (not from NA-136 and NA-148). All QSOs will be uploaded to ClubLog and LoTW, and IOTA matching will be available as soon as possible. QSL direct to [AA5JF](mailto:AA5JF).

-[425DXN # 1727 June 8, 2024] (0607-0621)

**KHØ, MARIANA IS.** Tony, JA6CNL, will be active as **KHØN** from **June 6th to 12th**. QRV on 80-10m, mostly on FT4/8. QSL via [JA6CNL](mailto:JA6CNL).

-[DXNL # 2409 June 5, 2024] (0607-0614)

**OX, GREENLAND.** Bo, OZ1DJJ will be active again as **OX3LX** from Greenland on **June 1st-15th**. In his spare time, he will be QRV from Tasiilaq (grid HP15) on Ammassalik Island (NA-151), and maybe also from Isertoq (grid HP05) on mainland Greenland. Usually, he operates FT8 and SSB. QSOs will be uploaded to LoTW and ClubLog. QSL via [OZØJ](mailto:OZØJ).

-[425DXN # 1725 May 25, 2024] (0531-0614)

**SM, SWEDEN.** Lars, SM6CUK will be active holiday style as **SA6G/7** from Ven Island (EU-137) on **June 3rd-9th**. He will operate mainly CW on 40-6 meters. QSOs will be uploaded to ClubLog and LoTW. QSL via [SM6CUK](mailto:SM6CUK).

-[425DXN # 1726 June 1, 2024] (0531-0614)

**SP, POLAND.** Special call signs **SP9ØØCPZ**, **3Z1OTTON**, **HF1OTTON**, **SN1OTTON**, **SO1OTTON**, **SP1OTTON** and **SQ1OTTON** will be active from **June 3rd to July 2nd** to mark the 900th anniversary of the first mission to Pomerania undertaken by Otto, bishop of Bamberg. A certificate will be available, see <https://sp1kze.pzk.org.pl/900.html#en> for information.

-[425DXN # 1726 June 1, 2024] (0531-0705)

**SP, POLAND.** Celebrating the 65th anniversary of the SP DX Club, special call signs **SP65S**, **SO65P**, **SN65D**, **HF65X** and **3Z65C** will be active on **June 1st-16th**. A certificate will be available; complete information can be found on <https://logsp.pzk.org.pl/a/spdxc/index.php>.

-[425DXN # 1724 May 18, 2024] (0531-0621)

**SV, GREECE.** Iakovos, **SV2RSG/A**, has been observed lately operating between 14007 and 14009 kHz between 1400z and 2000z, most likely with a CW decoder. QSL via [SV1GRM](mailto:SV1GRM).

-[DXNL # 2409 June 5, 2024] (0607-0621)

**SV9, CRETE.** Erwin, DK5EW (<https://dk5ew.com/>) will be active as **SV8/DK5EW** from Crete Island (EU-015) from **May 30th to June 20th**. He will be QRV on 6 and 4 meters only from grid locators KM35 (May 30th - June 5th) and KM15 (June 8th-20th). QSL via LoTW, eQSL, or direct to [DK5EW](mailto:DK5EW).

-[425DXN # 1725 May 25, 2024] (0524-0621)

**TR, GABON.** Roland, F8EN will be active again as **TR8CR** from Gabon from **May 15th until the end of June** (maybe longer). He will operate CW only and will celebrate his 96th birthday while there. Log search on <http://LesNouvellesDX.fr/voirlogs.php>. QSL via [F6AJA](mailto:F6AJA).

-[425DXN # 1723 May 11, 2024] (0510-0628)

**V4, ST. KITTS & NEVIS.** Once again John, W5JON will be active as **V47JA** from St. Kitts (NA-104) from **May 28th to June 13th**. He will operate SSB and FT8 on the HF bands and 6 meters. QSL via LoTW, or direct only to [W5JON](mailto:W5JON).

-[425DXN # 1725 May 25, 2024] (0524-0614)

**VP6, PITCAIRN I.** Dave, WJ2O, will be active as **VP6DF** from **May 30th to June 10th**. QRV on 40-10m, mostly on CW, with 100W. After Pitcairn he will move on to Tahiti as FO/WJ2O from June 12th to 15th.

QSL via [N2ZN](#) or LoTW.

-[DXNL # 2408 May 29, 2024] (0531-0614)

**VU, INDIA.** A number of special event stations will be active from Kargil, in the Indian Himalayan Region, to celebrate the 25th Kargil Vijay Diwas (Kargil Victory Day):

May 26th-30th AT25KVG QSL via [VU2IRD](#)  
 May 30th-June 3rd AU25KVD QSL via [VU2XFD](#)  
 June 3rd-7th AT25KVE QSL via [VU2URC](#)  
 June 10th-14th AT25KAR QSL via [VU2FI](#)  
 June 25th-30th AT25KVF QSL via the bureau

-[425DXN # 1725 May 25, 2024] (0524-0629)

**VU, INDIA.** Jose, VU2JOS, operates around the World Communications Day with the callsign **AU5J** until June 30th. QSL via [VU2JOS](#).

-[DXNL # 2407 May 22, 2024] (0524-0628)

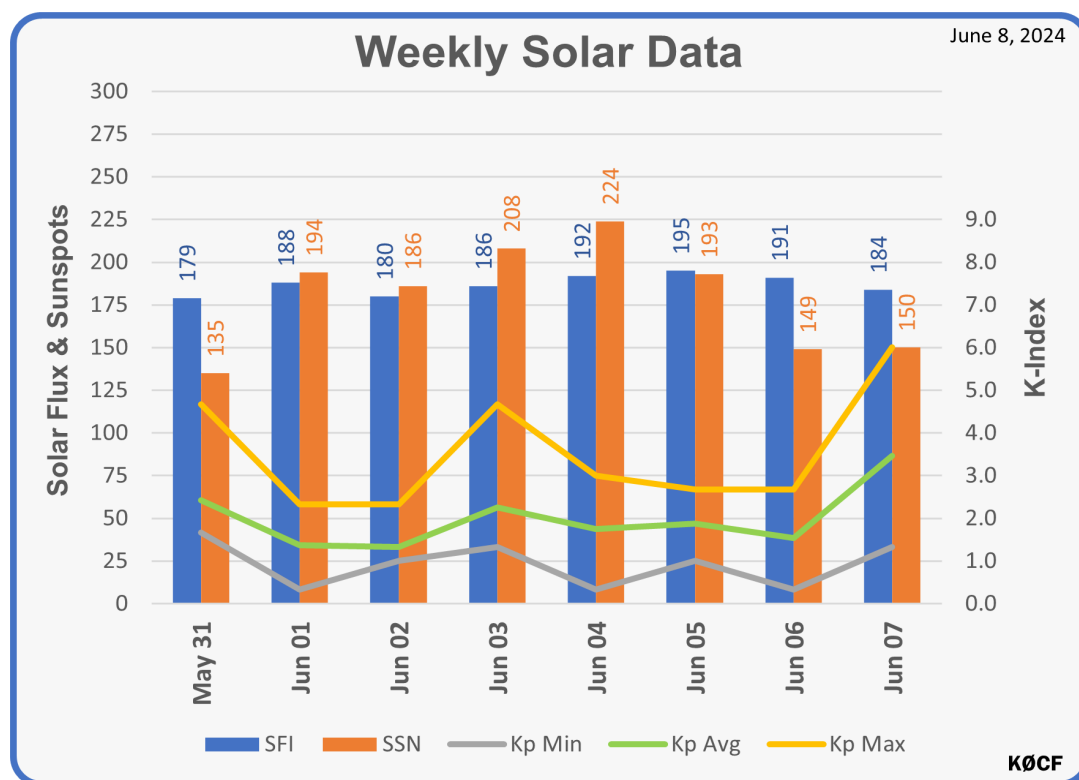
**YU, SERBIA.** Celebrating the 100th anniversary of Radio Beograd (October 1, 1924) members of the Belgrade Amateur Radio Club (YU1ANO) will be active as **YT1ØØRB** and **YU1924RB** until November 30th. A certificate will be available, see <https://yu1ano.org/> for the details.

-[425DXN # 1725 May 25, 2024] (0524-0614)

**Z3, NORTH MACEDONIA.** Vlado **Z3/ZS6MG** will be active from North Macedonia while on a family visit until June 16th. QRV on 60-6m, maybe also from some POTA references. QSL via [N3CZ](#).

-[DXNL # 2409 June 5, 2024] (0607-0621)

## Propagation (Updated daily)



The Weekly Solar Data chart plots Solar Flux Index (SFI), Sunspot number (SSN) and Planetary K-Index (Kp) for the past 8 days. With 8 Planetary K-index readings each day, only the minimum, average and maximum K-index values are plotted. **Note:** You may click [here](#) or on the chart above to see the same data for the past month.

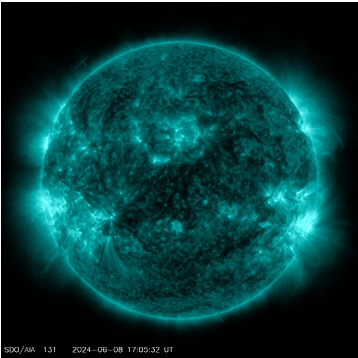
The Daily Solar Flux Index, Sunspot number, Planetary K-index, Solar Flux predictions and Solar Flare data used in this bulletin have been collected by KØCF from from the U.S. Department of Commerce's NOAA Space Weather Prediction Center.

The propagation graphs above are the creations of KØCF and are unique in space weather reporting.

*Please Note: The graphs are high resolution .PNG files which you may view in greater detail using your browser's "zoom" feature. Alternatively, right click on the graph and select "Open Image in New Tab" to enlarge it, or "Save Image As..." to save it to your computer for further analysis.*

NASA's current view of the Sun at a wave-length of 131 Angstroms. This wavelength shows incredible solar detail.

Click [here](#) or on the image to view as a full screen 48-hour video loop. It is fascinating!



**Propagation Summary**

For the 8 day period from Friday, May 31st through yesterday, June 7th.

The average solar flux was 188, up 21 points from the previous week, with a weekly high of 195 on Wednesday, June 5th, following a low of 179 on May 31st.

The average sunspot count was 186, up 55 from last week, peaking at 224 on Tuesday, June 4th after a weekly low of 135 on May 31st.

The Planetary K-index weekly average was 3.5 with a maximum of 6.0 on Friday, June 7th, resulting in moderate geomagnetic storm conditions. Yesterday's K-index maximum was 6.0, producing moderate geomagnetic storm conditions.

Solar flare activity since June 1st has been extremely high with 22 major flares, the largest of which was a major X 1.4 event on Saturday, June 1st.

**Propagation Data**

Major solar flares, Saturday, June 1st through 1245 UTC, June 8th.

| #  | Date   | UTC  | Mag.  |
|----|--------|------|-------|
| 1  | Jun 08 | 0858 | M 1.2 |
| 2  | Jun 08 | 0844 | M 1.2 |
| 3  | Jun 08 | 0528 | M 1.5 |
| 4  | Jun 08 | 0149 | M 9.7 |
| 5  | Jun 08 | 0051 | M 3.3 |
| 6  | Jun 08 | 0028 | M 1.8 |
| 7  | Jun 07 | 1622 | M 1.2 |
| 8  | Jun 07 | 0913 | M 4.0 |
| 9  | Jun 06 | 1506 | M 6.1 |
| 10 | Jun 05 | 1007 | M 2.6 |
| 11 | Jun 05 | 0856 | M 3.4 |
|    |        |      |       |

|    |        |      |       |
|----|--------|------|-------|
| 12 | Jun 04 | 0904 | M 1.6 |
| 13 | Jun 04 | 0631 | M 2.4 |
| 14 | Jun 03 | 1411 | M 4.8 |
| 15 | Jun 03 | 1227 | M 2.8 |
| 16 | Jun 03 | 1155 | M 3.2 |
| 17 | Jun 03 | 0517 | M 1.0 |
| 18 | Jun 02 | 0850 | M 2.0 |
| 19 | Jun 02 | 0450 | M 1.2 |
| 20 | Jun 01 | 1939 | M 7.3 |
| 21 | Jun 01 | 1836 | X 1.0 |
| 22 | Jun 01 | 0848 | X 1.4 |

(NOAA's graph of recent flare activity: [GOES-X-Ray-Flux](#))

From the NOAA Space Weather Prediction Center, here are the probabilities of major solar flares and the predicted 10.7 cm Solar Flux for the next 3 days. NOAA updates this information daily.

| Date   | M-Flares | X-Flares | Solar Flux |
|--------|----------|----------|------------|
| Jun 8  | 50%      | 10%      | 185        |
| Jun 9  | 50%      | 10%      | 185        |
| Jun 10 | 50%      | 10%      | 170        |

Looking farther ahead, here is the NOAA Space Weather Prediction Center forecast of 10.7 cm radio flux and maximum Planetary K-index (Kp) for the next 12 days. This data is updated by NOAA every Monday (last updated on June 3, 2024).

| Date   | Flux | Kp |
|--------|------|----|
| Jun 8  | 175  | 3  |
| Jun 9  | 175  | 4  |
| Jun 10 | 175  | 3  |
| Jun 11 | 180  | 2  |

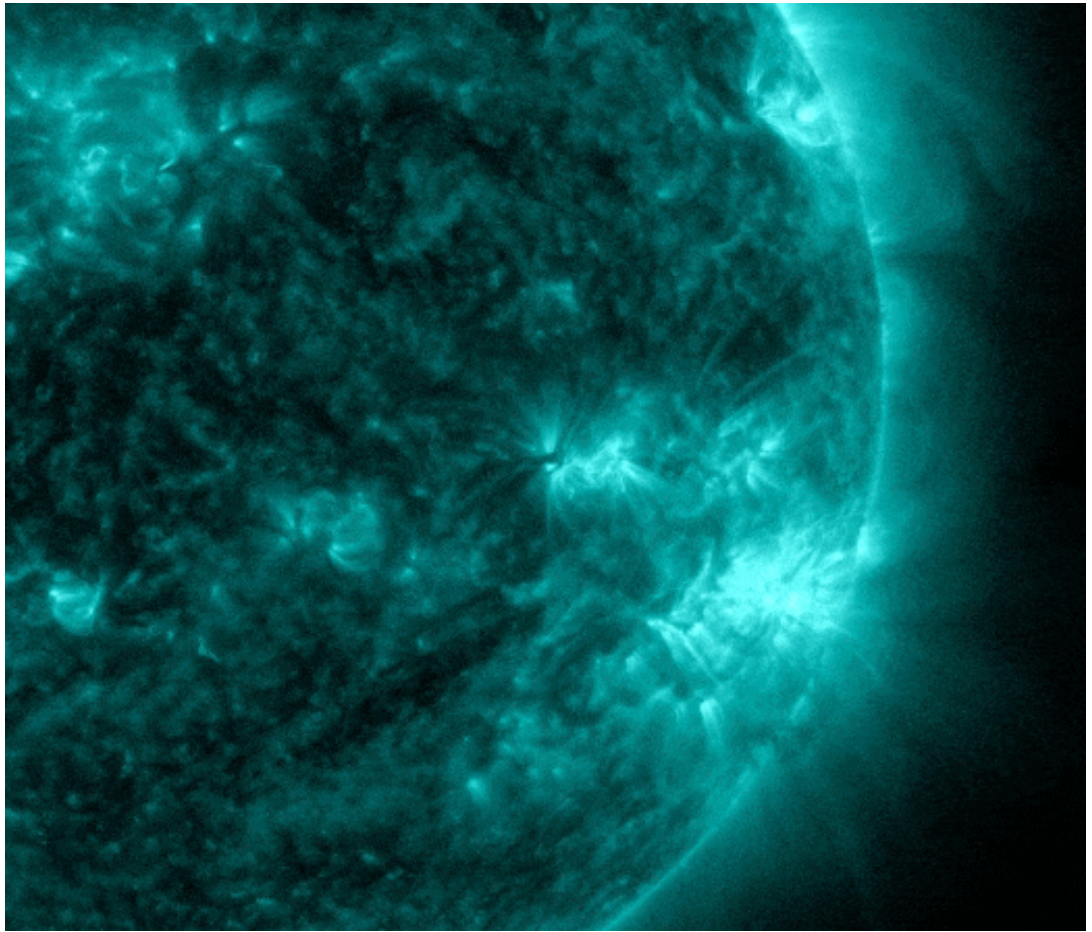
| Date   | Flux | Kp |
|--------|------|----|
| Jun 12 | 175  | 2  |
| Jun 13 | 170  | 2  |
| Jun 14 | 170  | 2  |
| Jun 15 | 170  | 2  |

| Date   | Flux | Kp |
|--------|------|----|
| Jun 16 | 170  | 2  |
| Jun 17 | 170  | 2  |
| Jun 18 | 170  | 2  |
| Jun 19 | 170  | 3  |

**Solar Flare and Hard Radiation Storm**

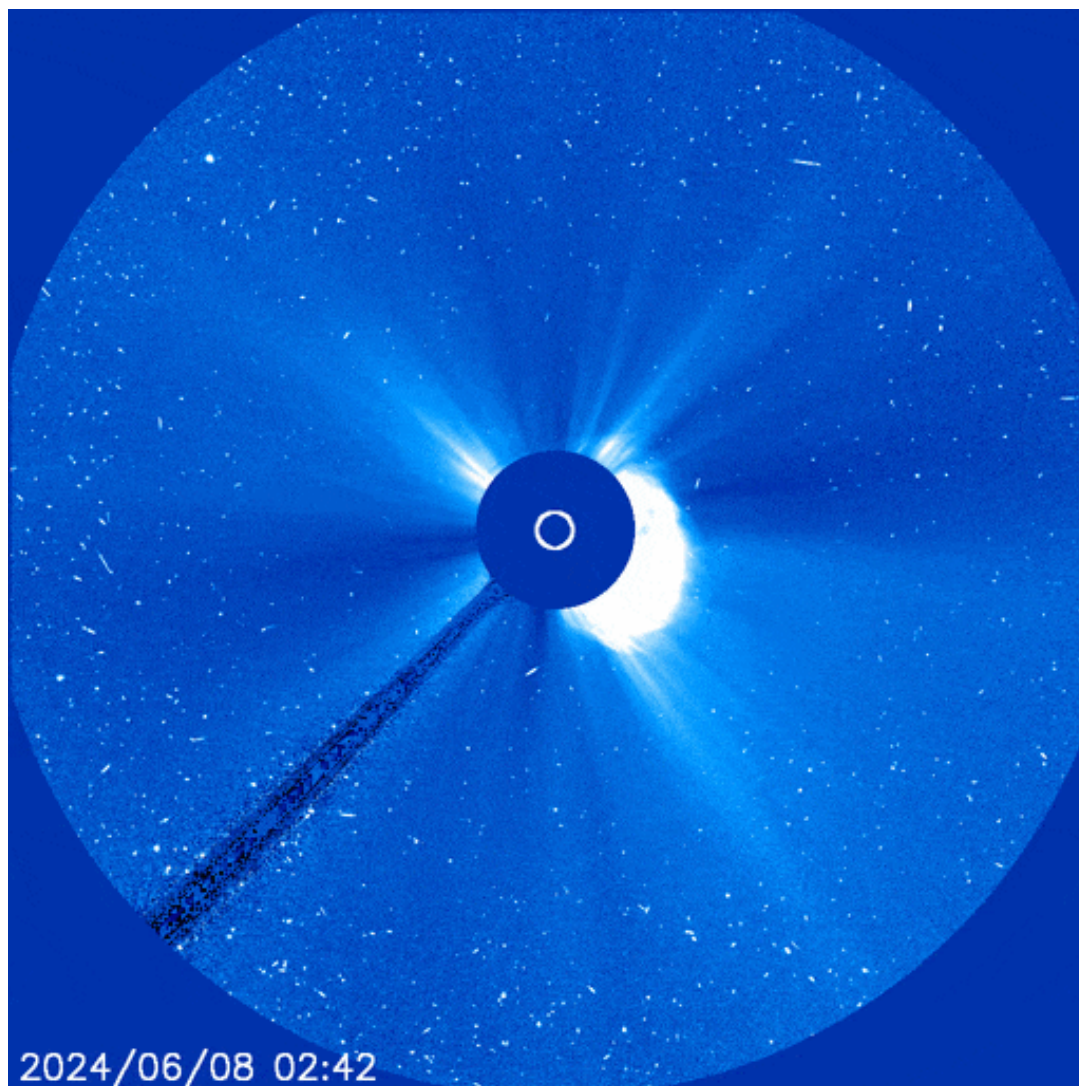
Sunspot AR3664 just did it again. The record-setting active region produced another very strong solar flare on June 8th (0149 UT). NASA's Solar Dynamics Observatory recorded the category M9.7 blast:





Extreme ultraviolet radiation from the flare ionized the top of Earth's atmosphere, causing a deep shortwave radio blackout across the western Pacific Ocean: [map](#). Mariners and ham radio operators may have noticed loss of signal at all frequencies below 30 MHz.

Of greater interest is the radiation storm. Energetic protons accelerated by the flare are raining down on Earth and hitting all satellites in the vicinity of our planet. Every speck of 'snow' in this SOHO coronagraph movie is caused by an energetic proton striking the spacecraft's camera:



At the moment the radiation storm is category [S2](#). That means it does not yet pose a biological threat to astronauts or air travelers. However, it does contain an unusually high fraction of "hard" protons with high energies > 100 MeV. If the storm continues to intensify, it could become a much more interesting event. Stay tuned!

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### Unexpected Geomagnetic Storm

This was not in the forecast. An interplanetary shock wave unexpectedly hit Earth's magnetic field on June 7th (11:30 UT), sparking a [G2](#)-class geomagnetic storm. The shock wave might have been a previously unrecognized CME, either too faint to see or misclassified as a farside event. [The storm](#), which lasted approximately 6 hours, is over now.

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### Highs for Cycle 25

Solar Flux: 234 on January 15, 2023.

Sunspots: 283 on April 21, 2024.

### Popular Propagation web sites

<https://prop.kc2g.com/> (Excellent Maximum Usable Frequency map)

NOAA <https://www.swpc.noaa.gov/>

<https://www.spaceweather.com/>

<https://www.solarham.com/>

<https://dx.qsl.net/propagation/>

### A Propagation Tutorial

The solar X-ray flux tracks solar activity and solar flares. Solar flux, which can vary from as low as 50

to as high as 300, influences the level of ionization in the F2 region of the ionosphere, providing a very good prediction of HF DX conditions. The higher the solar flux, the better conditions will be for the higher HF frequencies and even 6 meters. However, the levels need to be maintained for some days to allow ionization in the F2 layer to build up. A solar flux of 150 results in good HF band conditions, while levels of 200 and up can provide great conditions.

Large X-ray flares on the sun can increase the ionization of the D layer of the ionosphere (a lower layer) on the sunlit side of the Earth, greatly attenuating or blocking HF radio transmissions for up to a half hour. Solar flares often produce Coronal Mass Ejections (CMEs) which, if Earth directed, can lead to geomagnetic storms. Some large flares are also accompanied by strong radio bursts that may interfere with other radio frequencies and cause problems for satellite communication and radio navigation (GPS).

The Planetary K-index is a measure of the magnitude of geomagnetic storms and is an excellent indicator of disturbances in the Earth's magnetic field. A level of 1 or 2 represents quiet geomagnetic conditions; a reading of 3 or 4 may cause some propagation deterioration; 5 and 6 are minor to moderate geomagnetic storms; and 7 to 9 are strong, severe, and extreme storm conditions. Strong geomagnetic storms can trigger Auroral displays and cause HF radio blackouts. Higher geomagnetic activity also has the adverse effect of lowering maximum usable frequencies, much like lower solar flux does.

For best conditions, the solar flux should be above 150 for a few days with the K index below 2. When these conditions are met, some good DX is likely!

-[Compiled from information on NOAA.gov and other sources]

## Contest Calendar

### Weekly Contests

| Contest                | Start UTC |       | End   | Web Site              |
|------------------------|-----------|-------|-------|-----------------------|
| K1USN Slow Speed Test  | Monday    | 0000Z | 0100Z | <a href="#">Rules</a> |
| ICWC Medium Speed Test | Monday    | 1300Z | 1400Z | <a href="#">Rules</a> |
|                        | Monday    | 1900Z | 2000Z |                       |
|                        | Tuesday   | 0300Z | 0400Z |                       |
| CWops Test (CWT)       | Wednesday | 1300Z | 1400Z | <a href="#">Rules</a> |
|                        | Wednesday | 1900Z | 2000Z |                       |
|                        | Thursday  | 0300Z | 0400Z |                       |
|                        | Thursday  | 0700Z | 0800Z |                       |
| Weekly RTTY Test       | Friday    | 0145Z | 0215Z | <a href="#">Rules</a> |
| NCCC CW Sprint (NS)    | Friday    | 0230Z | 0300Z | <a href="#">Rules</a> |

Note: Start Days are in UTC, e.g. Monday at 0000 UTC is Sunday at 7:00 PM in the Central Daylight Saving Time zone, or Sunday at 6:00 PM in the Central Standard Time zone.

### Full Calendar

| Contest                      | Start  |       | End    |       | Web Site              |
|------------------------------|--------|-------|--------|-------|-----------------------|
| ARRL June VHF Contest        | Jun 8  | 1800Z | Jun 10 | 0300Z | <a href="#">Rules</a> |
| Stew Perry Topband Challenge | Jun 15 | 1500Z | Jun 16 | 1500Z | <a href="#">Rules</a> |

|                                      |        |       |        |       |                       |
|--------------------------------------|--------|-------|--------|-------|-----------------------|
| West Virginia QSO Party              | Jun 15 | 1600Z | Jun 16 | 0400Z | <a href="#">Rules</a> |
| ARRL Kids Day                        | Jun 15 | 1800Z | Jun 15 | 2359Z | <a href="#">Rules</a> |
| His Maj. King of Spain Contest, SSB  | Jun 22 | 1200Z | Jun 23 | 1200Z | <a href="#">Rules</a> |
| Ukrainian DX DIGI Contest            | Jun 22 | 1200Z | Jun 23 | 1200Z | <a href="#">Rules</a> |
| <b>ARRL Field Day</b>                | Jun 22 | 1800Z | Jun 23 | 2100Z | <a href="#">Rules</a> |
| RAC Canada Day Contest               | Jul 1  | 0000Z | Jul 1  | 2359Z | <a href="#">Rules</a> |
| <b>IARU HF World Championship</b>    | Jul 13 | 1200Z | Jul 14 | 1200Z | <a href="#">Rules</a> |
| CQ Worldwide VHF Contest             | Jul 20 | 1800Z | Jul 21 | 2100Z | <a href="#">Rules</a> |
| North American QSO Party, RTTY       | Jul 20 | 1800Z | Jul 21 | 0559Z | <a href="#">Rules</a> |
| RSGB IOTA Contest                    | Jul 27 | 1200Z | Jul 28 | 1200Z | <a href="#">Rules</a> |
| Alabama QSO Party                    | Jul 27 | 1500Z | Jul 28 | 0300Z | <a href="#">Rules</a> |
| 10-10 Int. Summer Contest, SSB       | Aug 3  | 0001Z | Aug 4  | 2359Z | <a href="#">Rules</a> |
| <b>North American QSO Party, CW</b>  | Aug 3  | 1800Z | Aug 4  | 0600Z | <a href="#">Rules</a> |
| <b>WAE DX Contest, CW</b>            | Aug 10 | 0000Z | Aug 11 | 2359Z | <a href="#">Rules</a> |
| Maryland-DC QSO Party                | Aug 10 | 1400Z | Aug 11 | 0400Z | <a href="#">Rules</a> |
| <b>North American QSO Party, SSB</b> | Aug 17 | 1800Z | Aug 18 | 0600Z | <a href="#">Rules</a> |
| ARRL Rookie Roundup, RTTY            | Aug 18 | 1800Z | Aug 18 | 2359Z | <a href="#">Rules</a> |
| Hawaii QSO Party                     | Aug 24 | 0400Z | Aug 26 | 0400Z | <a href="#">Rules</a> |
| World Wide Digi DX Contest           | Aug 24 | 1200Z | Aug 25 | 1200Z | <a href="#">Rules</a> |
| YO DX HF Contest                     | Aug 24 | 1200Z | Aug 25 | 1200Z | <a href="#">Rules</a> |
| Kansas QSO Party                     | Aug 24 | 1400Z | Aug 25 | 2000Z | <a href="#">Rules</a> |
| Ohio QSO Party                       | Aug 24 | 1600Z | Aug 25 | 0400Z | <a href="#">Rules</a> |
| UK/EI DX Contest, SSB                | Aug 31 | 1200Z | Sep 1  | 1200Z | <a href="#">Rules</a> |
| Tennessee QSO Party                  | Sep 1  | 1700Z | Sep 2  | 0300Z | <a href="#">Rules</a> |

-[Contest data courtesy of the [WA7BNM Contest Calendar](#) ]